Thick film rectangular

MCR100 (6432 size : 1W)

Features

- 1) Made of same material as the general purpose chip resistors (MCR10 / 18).
- 2) Highly reliable chip resistor
- Ruthenium oxide dielectric offers superior resistance to the elements.
- 3) Electrodes not corroded by soldering Suitable for re-flow soldering.
- ROHM resistors have approved ISO-9001 certification. Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it.

Ratings Item	Conditions	J. M	Specifications	
Rated power	Power must be derated according to the power derating curve in Figure 1 when ambient temperature exceeds 70°C.	1W at 70°1	· · · · · · · · · · · · · · · · · · ·	
Rated voltage	The voltage rating is calculated by the following equation. If the value obtained exceeds the limiting element voltage, the voltage rating is equal to the maximum operating voltage. E: Rated voltage (V) $E = \sqrt{P \times R}$ P: Rated power (W)	Limiting ele	ement voltage	200V
<u> </u>	R: Nominal resistance (Ω)	2		
Nominal resistance	See <u>Table 1</u> .			
Operating temperature		-55°C to +	-125°C	

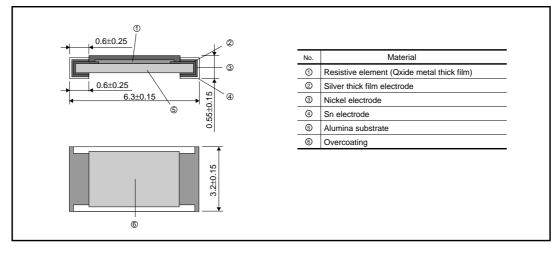
Jumper type		Table 1			
Resistance	Max. 50mΩ	Resistance tolerance	Resistance (Ω)	e range	Resistance temperature coefficient (ppm / °C)
Rated current	4A	F (±1%)	10≤R≤82k	(E24,96)	±100
Operating temperature	–55°C to +125°C	J (±5%)	1.0≤R<2.2	(E24)	500±350
			2.2≤R<10	(E24)	±500
			10≤R<24	(E24)	±350
			24≤R≤100k	(E24)	±200

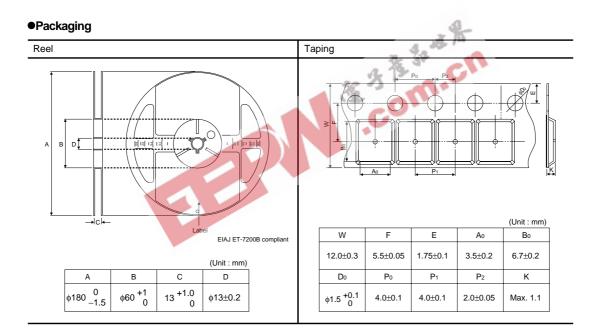
•Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady state voltage that is greater than its rated voltage.

Characteristics

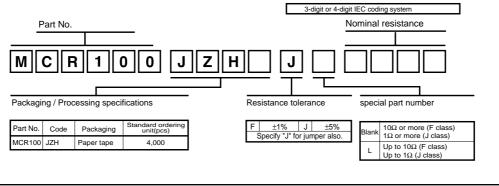
ltem	Guaranteed value		Test conditions (JIS C 5201-1)	
nem	Resistor type	Jumper type		
Resistance	J : ±5% F : ±1%	Max. 50mΩ	JIS C 5201-1 4.5	
Variation of resistance with temperature	See	Table.1	JIS C 5201-1 4.8 Measurement : -55 / +25 / +125°C	
Overload	± (2.0%+0.1Ω)	Max. 50mΩ	JIS C 5201-1 4.13 Rated voltage (current) ×2.5, 2s. Limiting Element Voltage×2 : 400V	
Solderability		pating of minimum of ce being immersed damage.	JIS C 5201-1 4.17 Rosin Ethanol (25%WT) Soldering condition : 235±5°C Duration of immersion : 2.0±0.5s.	
Resistance to soldering heat	± (1.0%+0.05Ω) No remarkable abnorn	Max. 50m Ω nality on the appearance.	JIS C 5201-1 4.18 Soldering condition : 260±5°C Duration of immersion : 10±1s.	
Rapid change of temperature	± (1.0%+0.05Ω)	Max. 50mΩ	JIS C 5201-1 4.19 Test temp. : -55°C to +125°C 5cyc	
Damp heat, steady state	± (3.0%+0.1Ω)	Max. 100mΩ	JIS C 5201-1 4.24 40°C, 93%RH Test time : 1,000h to 1,048h	
Endurance at 70°C	± (3.0%+0.1Ω)	Max. 100mΩ	JIS C 5201-1 4.25.1 Rated voltage (current), 70°C 1.5h : ON – 0.5h : OFF Test time : 1,000h to 1,048h	
Endurance	± (3.0%+0.1Ω)	Max. 100mΩ	JIS C 5201-1 4.25.3 125°C Test time : 1,000h to 1,048h	
Resistance to solvent	± (1.0%+0.05Ω)	Max. 50mΩ	JIS C 5201-1 4.29 23±5°C, Immersion cleaning, 5±0.5m Solvent : 2-propanol	
Bend strength of the end face plating	± (1.0%+0.05Ω) Without mechanical o	Max. 50m Ω damage such as breaks.	JIS C 5201-1 4.33	

•External dimensions (Unit : mm)



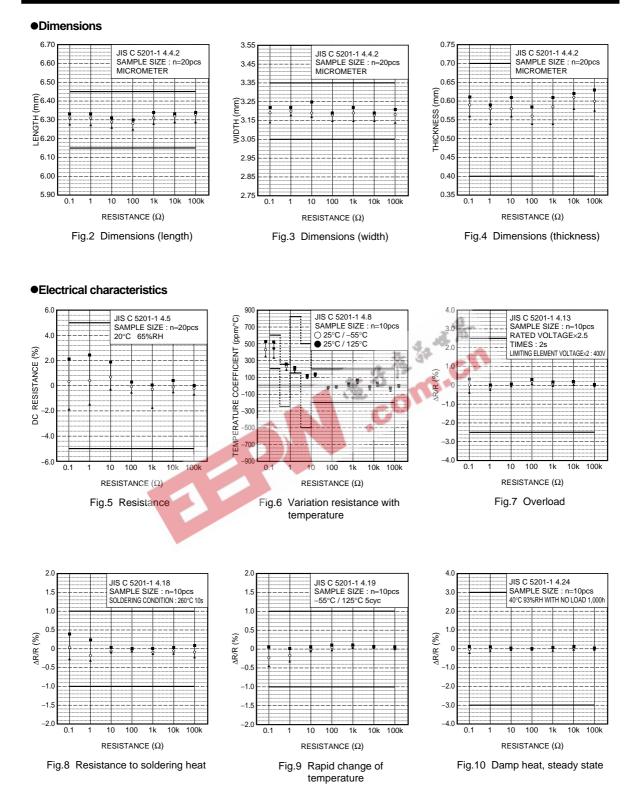


•Makeup of the part number



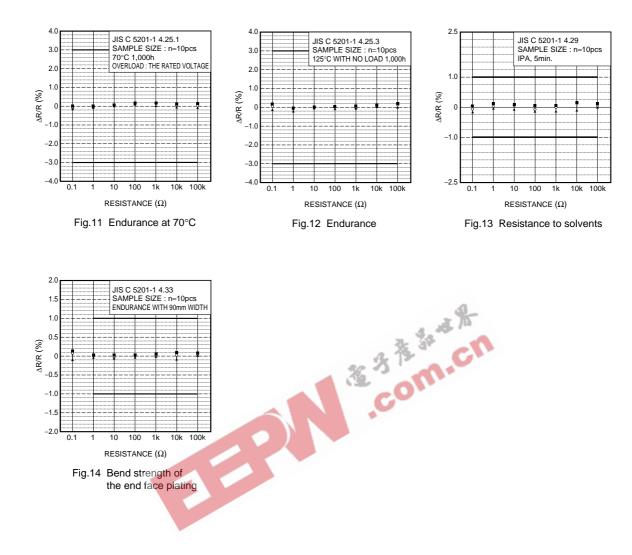
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